

National Tribal WQX/STORET Data Management



WQX
WATER QUALITY EXCHANGE

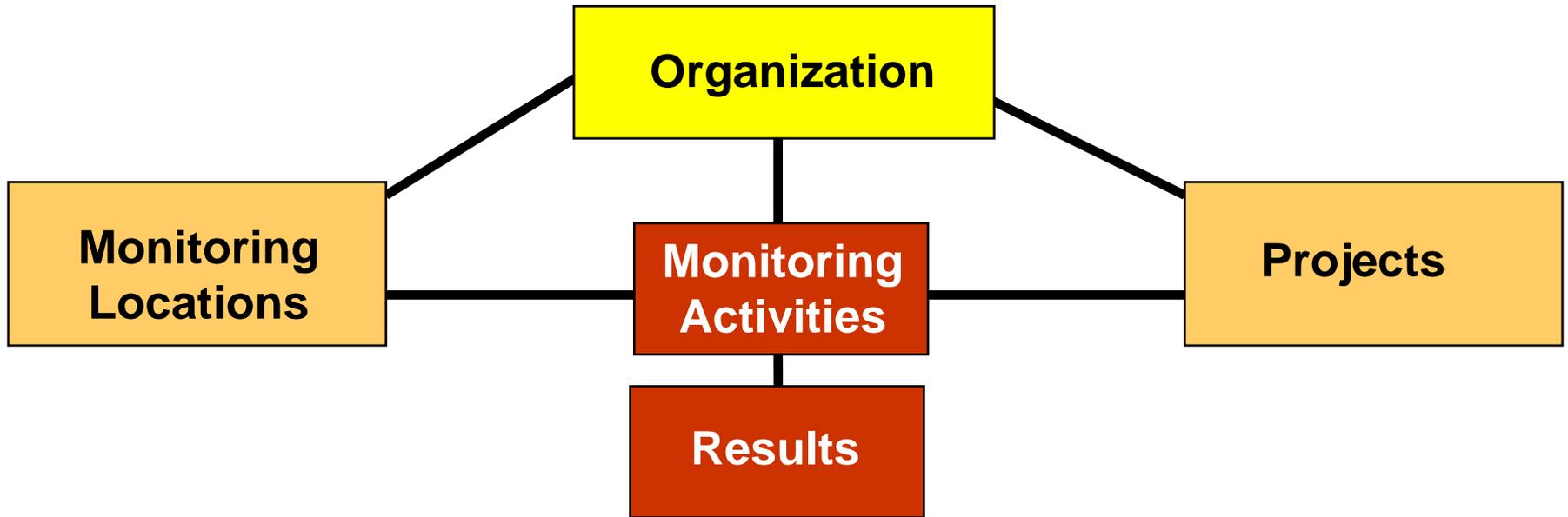


August 25, 2010

Data Management

- ❑ May use Microsoft Access, Excel, or other in-house systems
- ❑ Use template format to manage data
- ❑ Be consistent internally to avoid re-work
- ❑ Coordinate with laboratory

WQX & STORET Warehouse Structure



Metadata for Sharing Data

- **Who** **Organization**
- **What** **Characteristic (Chemical, Taxa, Physical)**
- **Where** **Monitoring Location**
- **When** **Date**
- **Why** **Project Description**
- **How** **Sample Collection Method & Analytical Method.**

Projects

- ID
- Name
- Description

Monitoring Locations (Stations)

- ❑ ID
- ❑ Name
- ❑ Type (River, Lake, Wetland)
- ❑ Tribal Land Information
- ❑ Lat/Long, Method, Map Scale, Datum
- ❑ State, County, HUC

Activity

- ID
- Type (Sample, Field Measurement, QC)
- Medium (Water, Sediment, Air)
- Date, Time
- Depth
- Collection Method
- Collection Equipment

Results

- Characteristic Name
- Value, Units
- Sample Fraction
- Status, Type, Statistical Base
- Analytical Method
- Analysis Date
- Detection Limit
- Comments

Field Required?

- ❑ Required – Must Always Be Provided

- ❑ Optional – Provided if Desired

- ❑ Conditionally Required – Required if Certain Conditions are Met
 - Example – a Sample Collection Method IS required only if Activity Type is a Sample, but NOT for a Field Measurement

Types of Fields

- Freetext

- Defined Format
 - Dates: YYYY-MM-DD, ex. 2008-11-18
 - Latitude: DD.DDDDD, ex. 40.51344
 - Longitude: -DDD.DDDDD, ex. -100.3342

- Allowable Values

Data Standards

- Methyl tertiary butyl ether
- 2-Methoxy-2-methylpropane
- Methyl-t-butyl ether
- MTBE
- CAS 1634-04-4

Are these the same?

Data Standards

These are the same, but WQX Wants:

Methyl tert-butyl ether

Required Characteristics

- Water Temperature
- pH
- Turbidity
- Dissolved Oxygen
- Total Phosphorus
- Total Nitrogen
- E-coli
- Macroinvertebrates (abundance)
- Habitat Assessment (Stream bank erosion, stream bottom char, land use, etc.)

Any Questions?

Contact Information

- STORET Helpdesk
 - (800) 424-9067
 - STORET@epa.gov
- Tribal STORET/WQX Support Hotline
 - (800) 844-0638
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